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NA
RAW SEQUENCE LISTING
PATENT APPLICATION US/09/394,264

(1645)
BATCH

2-22

DATE: 03/03/2000
TIME: 13:41:48

Input Set: I394264.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

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1 <110> APPLICANT: Morton, Cynthia C.
2   Robertson, Nahid G.
3 <120> TITLE OF INVENTION: NOVEL COCHLEAR GENE COCH5B2 AND USES THEREOF
4 <130> FILE REFERENCE: 10286/008001
5 <140> CURRENT APPLICATION NUMBER: US/09/394,264
6 <141> CURRENT FILING DATE: 1999-09-10
7 <150> EARLIER APPLICATION NUMBER: US 60/102,343
8 <151> EARLIER FILING DATE: 1998-09-29
9 <160> NUMBER OF SEQ ID NOS: 19
10 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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13 <212> TYPE: DNA
14 <213> ORGANISM: Homo sapiens
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21                                     1
22   tcc gca gcc tgg atc ccg gct ctc ggc ctc ggt gtg tgt ctg ctg ctg      107
23   Ser Ala Ala Trp Ile Pro Ala Leu Gly Leu Gly Val Cys Leu Leu Leu
24               5                10                15
25   ctg ccg ggg ccc gcg ggc agc gag gga gcc gct ccc att gct atc aca      155
26   Leu Pro Gly Pro Ala Gly Ser Glu Gly Ala Ala Pro Ile Ala Ile Thr
27               20                25                30
28   tgt ttt acc aga ggc ttg gac atc agg aaa gag aaa gca gat gtc ctc      203
29   Cys Phe Thr Arg Gly Leu Asp Ile Arg Lys Glu Lys Ala Asp Val Leu
30               35                40                45
31   tgc cca ggg ggc tgc cct ctt gag gaa ttc tct gtg tat ggg aac ata      251
32   Cys Pro Gly Gly Cys Pro Leu Glu Glu Phe Ser Val Tyr Gly Asn Ile
33               50                55                60                65
34   gta tat gct tct gta tcg agc ata tgt ggg gct gct gtc cac agg gga      299
35   Val Tyr Ala Ser Val Ser Ser Ile Cys Gly Ala Ala Val His Arg Gly
36               70                75                80
37   gta atc agc aac tca ggg gga cct gta cga gtc tat agc cta cct ggt      347
38   Val Ile Ser Asn Ser Gly Gly Pro Val Arg Val Tyr Ser Leu Pro Gly
39               85                90                95
40   cga gaa aac tat tcc tca gta gat gcc aat ggc atc cag tct caa atg      395
41   Arg Glu Asn Tyr Ser Ser Val Asp Ala Asn Gly Ile Gln Ser Gln Met
42               100               105               110
43   ctt tct aga tgg tct gct tct ttc aca gta act aaa ggc aaa agt agt      443
44   Leu Ser Arg Trp Ser Ala Ser Phe Thr Val Thr Lys Gly Lys Ser Ser
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45	115	120	125	
46	aca cag gag gcc aca gga caa gca gtg tcc aca gca cat cca cca aca			491
47	Thr Gln Glu Ala Thr Gly Gln Ala Val Ser Thr Ala His Pro Pro Thr			
48	130	135	140	145
49	ggt aaa cga cta aag aaa aca ccc gag aag aaa act ggc aat aaa gat			539
50	Gly Lys Arg Leu Lys Lys Thr Pro Glu Lys Lys Thr Gly Asn Lys Asp			
51		150	155	160
52	tgt aaa gca gac att gca ttt ctg att gat gga agc ttt aat att ggg			587
53	Cys Lys Ala Asp Ile Ala Phe Leu Ile Asp Gly Ser Phe Asn Ile Gly			
54		165	170	175
55	cag cgc cga ttt aat tta cag aag aat ttt gtt gga aaa gtg gct cta			635
56	Gln Arg Arg Phe Asn Leu Gln Lys Asn Phe Val Gly Lys Val Ala Leu			
57		180	185	190
58	atg ttg gga att gga aca gaa gga cca cat gtg ggc ctt gtt caa gcc			683
59	Met Leu Gly Ile Gly Thr Glu Gly Pro His Val Gly Leu Val Gln Ala			
60		195	200	205
61	agt gaa cat ccc aaa ata gaa ttt tac ttg aaa aac ttt aca tca gcc			731
62	Ser Glu His Pro Lys Ile Glu Phe Tyr Leu Lys Asn Phe Thr Ser Ala			
63		210	215	220
64	aaa gat gtt ttg ttt gcc ata aag gaa gta ggt ttc aga ggg ggt aat			779
65	Lys Asp Val Leu Phe Ala Ile Lys Glu Val Gly Phe Arg Gly Gly Asn			
66		230	235	240
67	tcc aat aca gga aaa gcc ttg aag cat act gct cag aaa ttc ttc acg			827
68	Ser Asn Thr Gly Lys Ala Leu Lys His Thr Ala Gln Lys Phe Phe Thr			
69		245	250	255
70	gta gat gct gga gta aga aaa ggg atc ccc aaa gtg gtg gtg gta ttt			875
71	Val Asp Ala Gly Val Arg Lys Gly Ile Pro Lys Val Val Val Val Phe			
72		260	265	270
73	att gat ggt tgg cct tct gat gac atc gag gaa gca ggc att gtg gcc			923
74	Ile Asp Gly Trp Pro Ser Asp Asp Ile Glu Glu Ala Gly Ile Val Ala			
75		275	280	285
76	aga gag ttt ggt gtc aat gta ttt ata gtt tct gtg gcc aag cct atc			971
77	Arg Glu Phe Gly Val Asn Val Phe Ile Val Ser Val Ala Lys Pro Ile			
78		290	295	300
79	cct gaa gaa ctg ggg atg gtt cag gat gtc aca ttt gtt gac aag gct			1019
80	Pro Glu Glu Leu Gly Met Val Gln Asp Val Thr Phe Val Asp Lys Ala			
81		310	315	320
82	gtc tgt cgg aat aat ggc ttc ttc tct tac cac atg ccc aac tgg ttt			1067
83	Val Cys Arg Asn Asn Gly Phe Phe Ser Tyr His Met Pro Asn Trp Phe			
84		325	330	335
85	ggc acc aca aaa tac gta aag cct ctg gta cag aag ctg tgc act cat			1115
86	Gly Thr Thr Lys Tyr Val Lys Pro Leu Val Gln Lys Leu Cys Thr His			
87		340	345	350
88	gaa caa atg atg tgc agc aag acc tgt tat aac tca gtg aac att gcc			1163
89	Glu Gln Met Met Cys Ser Lys Thr Cys Tyr Asn Ser Val Asn Ile Ala			
90		355	360	365
91	ttt cta att gat ggc tcc agc agt gtt gga gat agc aat ttc cgc ctc			1211
92	Phe Leu Ile Asp Gly Ser Ser Ser Val Gly Asp Ser Asn Phe Arg Leu			
93		370	375	380
94	atg ctt gaa ttt gtt tcc aac ata gcc aag act ttt gaa atc tcg gac			1259

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Input Set: I394264.RAW

95	Met Leu Glu Phe Val Ser Asn Ile Ala Lys Thr Phe Glu Ile Ser Asp	
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97	att ggt gcc aag ata gct gct gta cag ttt act tat gat cag cgc acg	1307
98	Ile Gly Ala Lys Ile Ala Ala Val Gln Phe Thr Tyr Asp Gln Arg Thr	
99		405 410 415
100	gag ttc agt ttc act gac tat agc acc aaa gag aat gtc cta gct gtc	1355
101	Glu Phe Ser Phe Thr Asp Tyr Ser Thr Lys Glu Asn Val Leu Ala Val	
102		420 425 430
103	atc aga aac atc cgc tat atg agt ggt gga aca gct act ggt gat gcc	1403
104	Ile Arg Asn Ile Arg Tyr Met Ser Gly Gly Thr Ala Thr Gly Asp Ala	
105		435 440 445
106	att tcc ttc act gtt aga aat gtg ttt ggc cct ata agg gag agc ccc	1451
107	Ile Ser Phe Thr Val Arg Asn Val Phe Gly Pro Ile Arg Glu Ser Pro	
108		450 455 460 465
109	aac aag aac ttc cta gta att gtc aca gat ggg cag tcc tat gat gat	1499
110	Asn Lys Asn Phe Leu Val Ile Val Thr Asp Gly Gln Ser Tyr Asp Asp	
111		470 475 480
112	gtc caa ggc cct gca gct gct gca cat gat gca gga atc act atc ttc	1547
113	Val Gln Gly Pro Ala Ala Ala Ala His Asp Ala Gly Ile Thr Ile Phe	
114		485 490 495
115	tct gtt ggt gtg gct tgg gca cct ctg gat gac ctg aaa gat atg gct	1595
116	Ser Val Gly Val Ala Trp Ala Pro Leu Asp Asp Leu Lys Asp Met Ala	
117		500 505 510
118	tct aaa ccg aag gag tct cat gct ttc ttc aca aga gag ttc aca gga	1643
119	Ser Lys Pro Lys Glu Ser His Ala Phe Phe Thr Arg Glu Phe Thr Gly	
120		515 520 525
121	tta gaa cca att gtt tct gat gtc atc aga ggc att tgt aga gat ttc	1691
122	Leu Glu Pro Ile Val Ser Asp Val Ile Arg Gly Ile Cys Arg Asp Phe	
123		530 535 540 545
124	tta gaa tcc cag caa taatggtaac attttgacaa ctgaaagaaa aagtacaagg	1746
125	Leu Glu Ser Gln Gln	
126		550
127	ggatccagtg tgtaaattgt attctcataa tactgaaatg ctttagcata ctagaatcag	1806
128	atacaaaact attaagtatg tcaacagcca tttaggcaaa taagcactcc tttaaagccg	1866
129	ctgccttctg gttacaattt acagtgtact ttgttaaaaa cactgctgag gcttcataat	1926
130	catggctctt agaaactcag gaaagaggag ataatgtgga ttaaaacctt aagagttcta	1986
131	accatgccta ctaaattgtac agatatgcaa attccatagc tcaataaaaag aatctgatac	2046
132	ttagacaaaa agcaacattc gttctctaac cattctgtat tgattatata agcaaaatga	2106
133	aaagagaaac ttaaatgaac acagctcttt aacatggttc aggtacacat attttgaccc	2166
134	aagtggatat tttcttaaaa ccaatcaata atagctagct attactgcag actataaaat	2226
135	ctggatatag aaaggagacc tgtatcaaac tgcttttgta gtgtgttttc ataacaactt	2286
136	atgactaaaa atatcacact gaataagaga gcaggattgc caggatatttt tctatttctc	2346
137	tccttaattt tatatgtata tagatatatt tggcttatat tctaagtcac ctaagtactt	2406
138	aaaagttaag ttggtaaagt atttactgac tgcttataaa catttaaaga caaagacatt	2466
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140	gttattgt	2534
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Input Set: I394264.RAW

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149 20 25 30
150 Thr Cys Phe Thr Arg Gly Leu Asp Ile Arg Lys Glu Lys Ala Asp Val
151 35 40 45
152 Leu Cys Pro Gly Gly Cys Pro Leu Glu Glu Phe Ser Val Tyr Gly Asn
153 50 55 60
154 Ile Val Tyr Ala Ser Val Ser Ser Ile Cys Gly Ala Ala Val His Arg
155 65 70 75 80
156 Gly Val Ile Ser Asn Ser Gly Gly Pro Val Arg Val Tyr Ser Leu Pro
157 85 90 95
158 Gly Arg Glu Asn Tyr Ser Ser Val Asp Ala Asn Gly Ile Gln Ser Gln
159 100 105 110
160 Met Leu Ser Arg Trp Ser Ala Ser Phe Thr Val Thr Lys Gly Lys Ser
161 115 120 125
162 Ser Thr Gln Glu Ala Thr Gly Gln Ala Val Ser Thr Ala His Pro Pro
163 130 135 140
164 Thr Gly Lys Arg Leu Lys Lys Thr Pro Glu Lys Lys Thr Gly Asn Lys
165 145 150 155 160
166 Asp Cys Lys Ala Asp Ile Ala Phe Leu Ile Asp Gly Ser Phe Asn Ile
167 165 170 175
168 Gly Gln Arg Arg Phe Asn Leu Gln Lys Asn Phe Val Gly Lys Val Ala
169 180 185 190
170 Leu Met Leu Gly Ile Gly Thr Glu Gly Pro His Val Gly Leu Val Gln
171 195 200 205
172 Ala Ser Glu His Pro Lys Ile Glu Phe Tyr Leu Lys Asn Phe Thr Ser
173 210 215 220
174 Ala Lys Asp Val Leu Phe Ala Ile Lys Glu Val Gly Phe Arg Gly Gly
175 225 230 235 240
176 Asn Ser Asn Thr Gly Lys Ala Leu Lys His Thr Ala Gln Lys Phe Phe
177 245 250 255
178 Thr Val Asp Ala Gly Val Arg Lys Gly Ile Pro Lys Val Val Val Val
179 260 265 270
180 Phe Ile Asp Gly Trp Pro Ser Asp Asp Ile Glu Glu Ala Gly Ile Val
181 275 280 285
182 Ala Arg Glu Phe Gly Val Asn Val Phe Ile Val Ser Val Ala Lys Pro
183 290 295 300
184 Ile Pro Glu Glu Leu Gly Met Val Gln Asp Val Thr Phe Val Asp Lys
185 305 310 315 320
186 Ala Val Cys Arg Asn Asn Gly Phe Phe Ser Tyr His Met Pro Asn Trp
187 325 330 335
188 Phe Gly Thr Thr Lys Tyr Val Lys Pro Leu Val Gln Lys Leu Cys Thr
189 340 345 350
190 His Glu Gln Met Met Cys Ser Lys Thr Cys Tyr Asn Ser Val Asn Ile
191 355 360 365
192 Ala Phe Leu Ile Asp Gly Ser Ser Ser Val Gly Asp Ser Asn Phe Arg
193 370 375 380
194 Leu Met Leu Glu Phe Val Ser Asn Ile Ala Lys Thr Phe Glu Ile Ser

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Input Set: I394264.RAW

195	385	390	395	400
196	Asp Ile Gly Ala Lys Ile Ala Ala Val Gln Phe Thr Tyr Asp Gln Arg			
197		405	410	415
198	Thr Glu Phe Ser Phe Thr Asp Tyr Ser Thr Lys Glu Asn Val Leu Ala			
199		420	425	430
200	Val Ile Arg Asn Ile Arg Tyr Met Ser Gly Gly Thr Ala Thr Gly Asp			
201		435	440	445
202	Ala Ile Ser Phe Thr Val Arg Asn Val Phe Gly Pro Ile Arg Glu Ser			
203		450	455	460
204	Pro Asn Lys Asn Phe Leu Val Ile Val Thr Asp Gly Gln Ser Tyr Asp			
205		465	470	475
206	Asp Val Gln Gly Pro Ala Ala Ala Ala His Asp Ala Gly Ile Thr Ile			
207		485	490	495
208	Phe Ser Val Gly Val Ala Trp Ala Pro Leu Asp Asp Leu Lys Asp Met			
209		500	505	510
210	Ala Ser Lys Pro Lys Glu Ser His Ala Phe Phe Thr Arg Glu Phe Thr			
211		515	520	525
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217 <211> LENGTH: 1650

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223	atcaggaaag agaaagcaga tgtcctctgc ccagggggct gccctcttga ggaattctct	180
224	gtgtatggga acatagtata tgcttctgta tcgagcatat gtggggctgc tgtccacagg	240
225	ggagtaatca gcaactcagg gggacctgta cgagtctata gcctacctgg tcgagaaaac	300
226	tattcctcag tagatgccaa tggcatccag tctcaaatgc tttctagatg gtctgcttct	360
227	ttcacagtaa ctaaaggcaa aagtagtaca caggaggcca caggacaagc agtgtccaca	420
228	gcacatccac caacaggtaa acgactaaag aaaacacccg agaagaaaac tggcaataaa	480
229	gattgtaaag cagacattgc atttctgatt gatggaagct ttaattattg gcagcgccga	540
230	tttaatttac agaagaattt tgttggaata gtggctctaa tgttggaat tggacagaa	600
231	ggaccacatg tgggccttgt tcaagccagt gaacatccca aaatagaatt ttacttgaaa	660
232	aactttacat cagccaaaga tgttttgttt gccataaagg aagtaggttt cagagggggt	720
233	aattccaata caggaaaagc cttgaagcat actgctcaga aattcttcac ggtagatgct	780
234	ggagtaagaa aagggatccc caaagtgggtg gtggtattta ttgatgggtg gccttctgat	840
235	gacatcgagg aagcaggcat tgtggccaga gagtttggtg tcaatgtatt tatagtttct	900
236	gtggccaagc ctatccctga agaactgggg atggttcagg atgtcacatt tgttgacaag	960
237	gctgtctgtc ggaataatgg cttcttctct taccacatgc ccaactgggt tggcaccaca	1020
238	aaatacgtaa agcctctggt acagaagctg tgcactcatg aacaaatgat gtgcagcaag	1080
239	acctgttata actcagtga cattgccttt ctaattgatg gctccagcag tgttgagat	1140
240	agcaatttcc gcctcatgct tgaatttggt tccaacatag ccaagacttt tgaatctcg	1200
241	gacattggtg ccaagatagc tgctgtacag tttacttatg atcagcgcac ggagttcagt	1260
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243	agtggtgga cagctactgg tgatgccatt tccttactg ttagaaatgt gtttggccct	1380
244	ataagggaga gcccacaaca gaacttccta gtaattgtca cagatgggca gtcctatgat	1440

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VERIFICATION SUMMARY
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Line ? Error/Warning

Original Text
